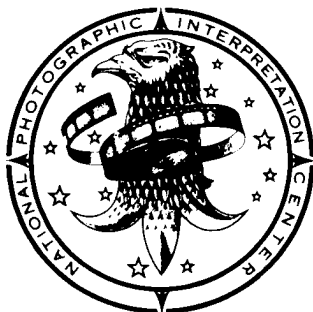


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(See inside cover)



Summary Report

NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER

CONSTRUCTION ACTIVITY AT PECHORA PHASED-ARRAY RADAR FACILITY, USSR

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SR-014/77

MARCH 1977

Copy 103

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(WNINTEL)

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Construction Activity at Pechora Phased-Array Radar Facility, USSR

A bi-static phased-array radar (Figure 1) has been under construction at Pechora since November 1974. [redacted] current construction activity at Pechora. The receiver was externally complete [redacted] and the transmitter was in a midstage of construction [redacted]. When operational, the facility, which is oriented on an azimuth of 360 degrees, will provide early-warning coverage for the central USSR from ballistic missiles launched from the west coast of the United States.

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Initial excavating for the receiver was first seen [redacted]. The screen was nearly complete [redacted]. Face paneling had been completed [redacted] (Figure 2).

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[redacted] The paneled portion of the antenna face is 95 meters long. [redacted]

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[redacted] The control building, which is beneath the antenna array, [redacted]. The overall height of the antenna and its control building is 86 meters, [redacted]

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[redacted] The receiver is similar in appearance to the new radar at Olenegorsk Hen House Radar Facility [redacted]. A large support building is under construction on the western side of the receiver. In addition, five distinct circular outlines have been marked off on the ground. Three outlines are 15 meters in diameter, [redacted]

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[redacted] While these may be outlines for water storage tanks, their exact purpose is unknown.

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Footings for the transmitter building were first seen [redacted] and the antenna screen was first observed under construction [redacted]. The transmitter was in the midstage of construction (Figure 3).

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The transmitter, [redacted] to the east of the receiver, is housed in the center of a C-shaped building, [redacted]

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[redacted] building framework occupies most of the remaining space between the building wings and extends forward a short distance on either side of the radar screen. Several prefabricated sections which may house the antenna elements were observed on top of the screen, indicating continued vertical construction of the antenna. Several objects, [redacted] [redacted] were observed on the ground in front of the radar building. They are probably the prefabricated sections used in building the screen.

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A rectangular building, [redacted] is under construction 350 meters east of the transmitter. The building which has a long axis perpendicular to the azimuth of the bi-static radar is outside the double security fences (Figure 1).

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A powerline is being constructed from the transmitter to a secondary substation and onto the primary substation farther south. A rail-served construction support site, also south of the facility, contains approximately 100 buildings.

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List of Conversion Factors by Classification

UNITS OF LENGTH

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
MILLIMETERS	0.0394	INCHES
CENTIMETERS	0.3937	INCHES
INCHES	25.4000	MILLIMETERS
INCHES	2.5400	CENTIMETERS
FEET	0.3048	METERS
FEET	0.0003	KILOMETERS
YARDS	0.9144	METERS
METERS	3.2808	FEET
METERS	0.0005	MILES(NAUTICAL)
METERS	1.0936	YARDS
KILOMETERS	3280.8400	FEET
KILOMETERS	0.6214	MILES(STATUTE)
KILOMETERS	0.5400	MILES(NAUTICAL)
MILES(STATUTE)	1.6093	KILOMETERS
MILES(NAUTICAL)	6076.1154	FEET
MILES(NAUTICAL)	1.8520	KILOMETERS
MILES(NAUTICAL)	1852.0000	METERS

UNITS OF MASS

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
KILOGRAMS	2.2046	POUNDS(AVOIR.)
POUNDS(AVOIR.)	0.4536	KILOGRAMS
SHORT TONS	0.9072	METRIC TONS
METRIC TONS	1.1023	SHORT TONS
METRIC TONS	0.9842	LONG TONS
LONG TONS	1.0160	METRIC TONS

UNITS OF VOLUME

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
LITERS	0.2642	GALLONS
LITERS	0.0063	BARRELS(POL)
LITERS	0.0010	CUBIC METERS
GALLONS	3.7854	LITERS
GALLONS	0.1337	CUBIC FEET
GALLONS	0.0238	BARRELS(POL)
GALLONS	0.0038	CUBIC METERS
BUSHELS	0.0352	CUBIC METERS
CUBIC FEET	7.4805	GALLONS
CUBIC FEET	0.1781	BARRELS(POL)
CUBIC FEET	0.0283	CUBIC METERS
CUBIC YARDS	0.7646	CUBIC METERS
BARRELS(POL)	158.9873	LITERS
BARRELS(POL)	42.0000	GALLONS
BARRELS(POL)	5.6146	CUBIC FEET
BARRELS(POL)	0.1590	CUBIC METERS
CUBIC METERS	1000.0000	LITERS
CUBIC METERS	264.1721	GALLONS
CUBIC METERS	35.3147	CUBIC FEET
CUBIC METERS	28.3776	BUSHELS
CUBIC METERS	6.2898	BARRELS(POL)
CUBIC METERS	1.3080	CUBIC YARDS

UNITS OF AREA

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
SQUARE CENTIMETERS	0.1550	SQUARE INCHES
SQUARE INCHES	6.4516	SQUARE CENTIMETERS
SQUARE FEET	0.0929	SQUARE METERS
SQUARE YARDS	0.8361	SQUARE METERS
SQUARE METERS	10.7639	SQUARE FEET
SQUARE METERS	1.1960	SQUARE YARDS
SQUARE METERS	1.0000	CENTARES
SQUARE METERS	0.0002	ACRES
SQUARE METERS	0.0001	HECTARES
ACRES	4046.8564	SQUARE METERS
ACRES	0.4047	HECTARES
HECTARES	10000.0000	SQUARE METERS
HECTARES	2.4711	ACRES

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